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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,089	07/30/2003	Nobuyuki Ito	1300-000001	8493
27572	7590 11/09/2006		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ROY, SIKHA	
			ART UNIT	PAPER NUMBER
			2879	
			DATE MAILED: 11/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/630,089	ITO ET AL.				
		Examiner	Art Unit				
		Sikha Roy	2879				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet	with the correspondence ad	dress			
WHI(- Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailed and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may and will apply and will expire SIX (6) MO tute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this coasand				
Status							
1)⊠	Responsive to communication(s) filed on <u>05</u>	September 2006					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□							
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4) Claim(s) 1,3 and 7-22 is/are pending in the application.						
	4a) Of the above claim(s) <u>9-22</u> is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1,3,7,8</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)[The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig ☐ All b)☐ Some * c)☐ None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bure	` ' ' '					
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachmen	t(s)						
	e of References Cited (PTO-892)		Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		o(s)/Mail Date Informal Patent Application				
	r No(s)/Mail Date	6)					

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DETAILED ACTION

Response to Amendment

The Amendment, filed on September 5, 2006 has been entered and acknowledged by the Examiner.

Cancellation of claims 4-6 has been entered.

The objection to claim 1 is withdrawn.

Claims 9-22 are withdrawn and claims 1,3,7 and 8 are pending in the instant application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,3 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication 2002/0060518 to Duineveld et al.

Regarding claim 1 Duineveld discloses (Fig.2C page 8, [0117] –[0122]) an electroluminescent display comprising a substrate 102, an electrode 103 provided on the substrate, protrusions (second relief pattern)108 provided on the substrate so as to cover the ends of the electrode 103 and are convexly curved relative to the surface of the substrate, an electroluminescent layer (104 and 105) provided in each opening which is located on the electrode and defined by adjacent protrusions 108 wherein the

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electroluminescent layer is in contact with the protrusion around the boundary between the EL layer and the protrusion and is curved in section in a direction opposite to the convexly curved protrusion. Duineveld further discloses the form of the protrusion 108 (second relief pattern 8) having thickness $4.5~\mu m$ comprising a part of an arc and a flat part (broader section 108a) which extends continuously from the part of the arc.

Regarding claim 1, Duineveld discloses the claimed invention except for the limitation of thickness of the protrusion not less than 5 μ m. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the second relief pattern or protrusion 108 with a thickness greater than 5 μ m, since optimization of workable ranges is considered within the skill of the art.

Regarding claim 3 Duineveld discloses the electroluminescent layer (104 and 105) around the boundary between the EL layer and the protrusion 108 is smooth and continuous in contact with the protrusion.

Regarding claim 7 Duineveld discloses (page 1 [0014], [0043], [0045]) the method of producing the EL display comprises the step of forming an organic layer on the surface of the substrate with protrusions provided thereon by using wet deposition method such as spin-coating or ink-jet printing.

Regarding claim 8 Duineveld discloses (Fig.4 [0125]) a mobile telephone comprising the electroluminescent display.

Response to Arguments

Applicant's arguments filed September 5, 2006 have been fully considered but they are not persuasive.

Applicant's arguments (Remarks section) fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Applicant alleges that cited document provides no disclosure or suggestion of the EL display having the combination of features recited in independent claim 1, but the Examiner respectfully disagrees. Duineveld discloses all the limitations of claim 1 except for the limitation of thickness of the protrusion being not less than 5 µm. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the second relief pattern or protrusion 108 with a thickness greater than 5µm, since optimization of workable ranges is considered within the skill of the art. The examiner hence asserts that the limitations are read from Duineveld and the rejections of claims 1,3, 7 and 8 are proper.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (571) 272-2463. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sikha Roy

Sikha Roy Patent Examiner Art Unit 2879